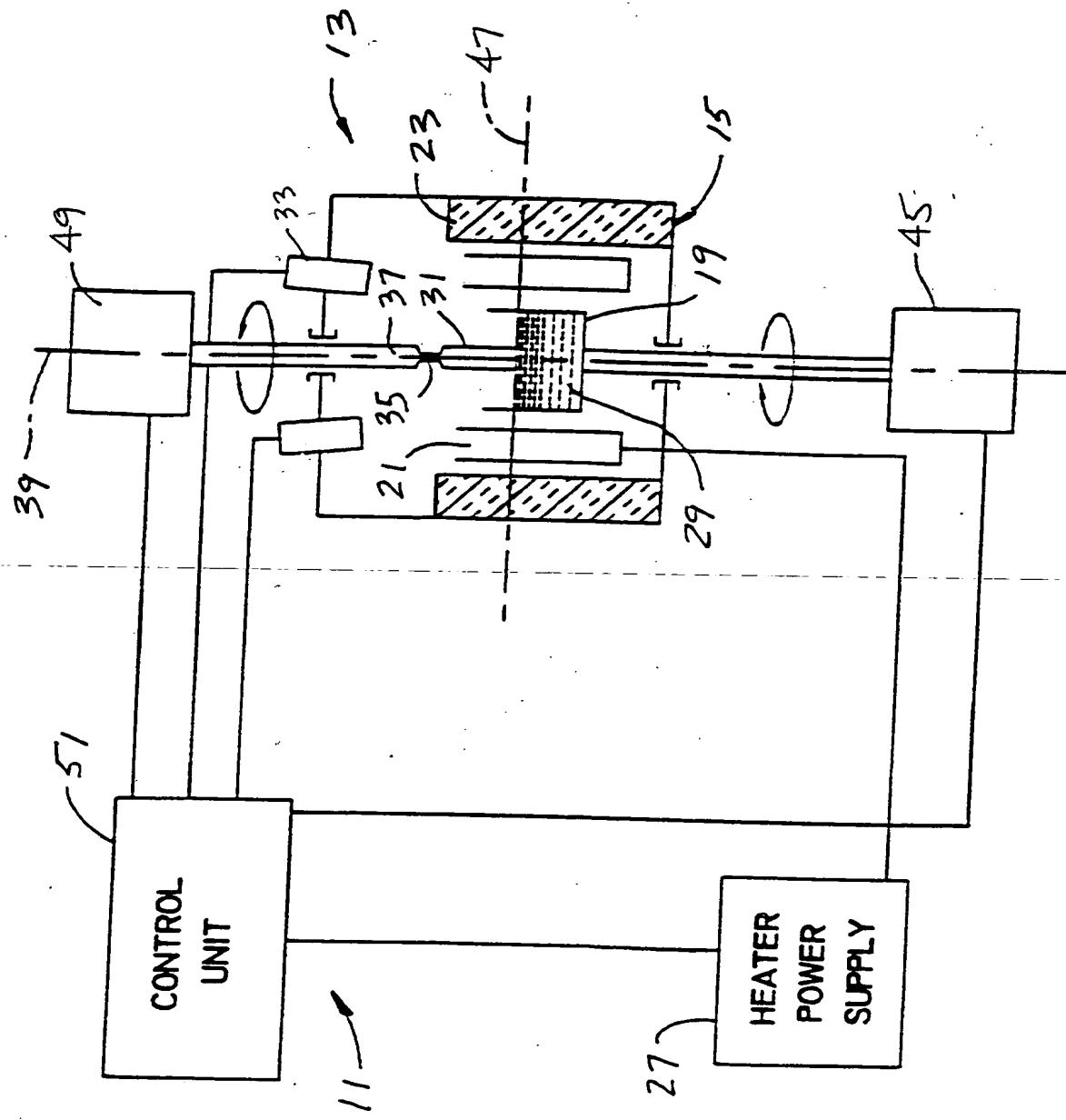


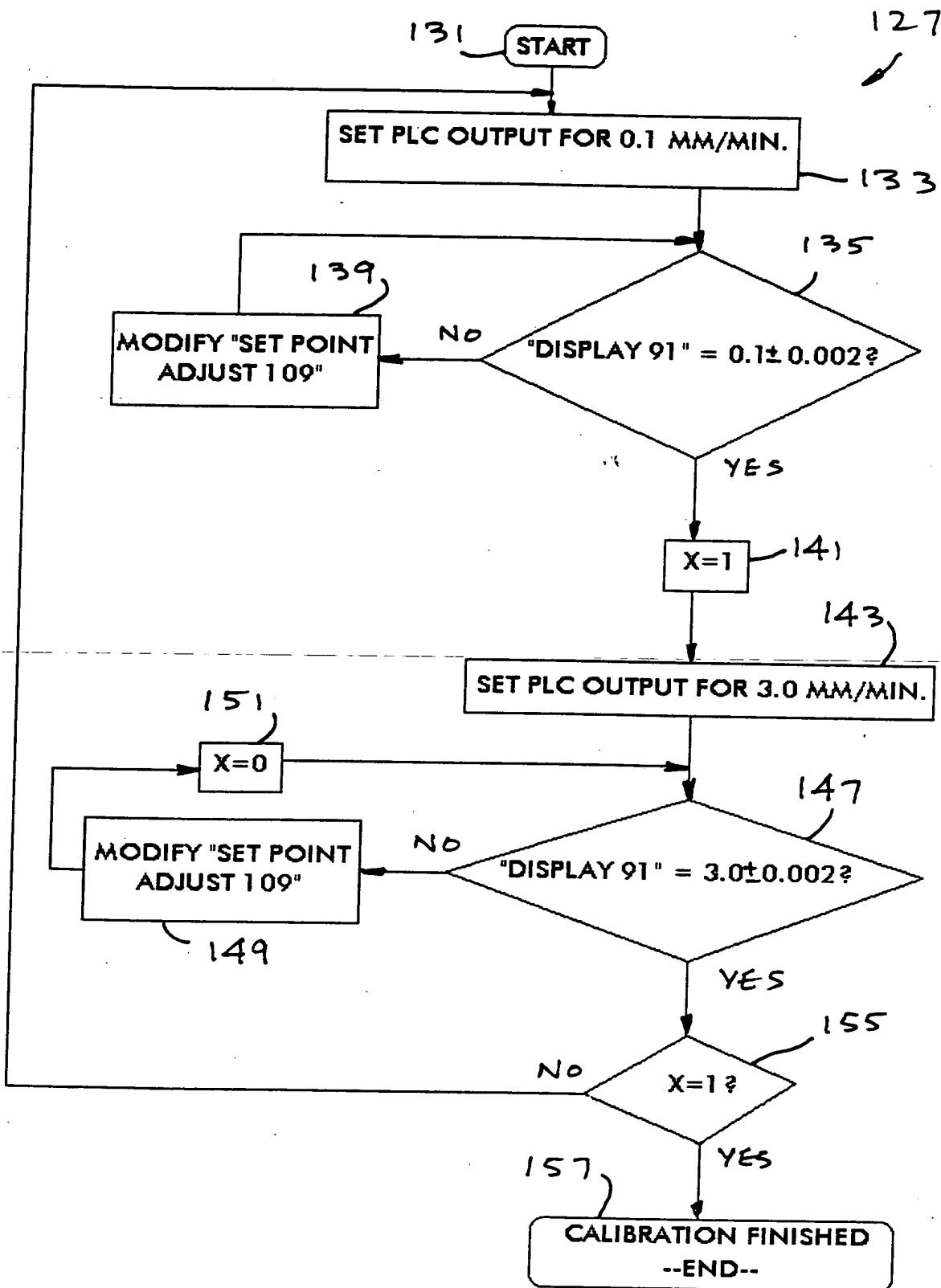
FIG. 1

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000



— 10 —

FIG.3



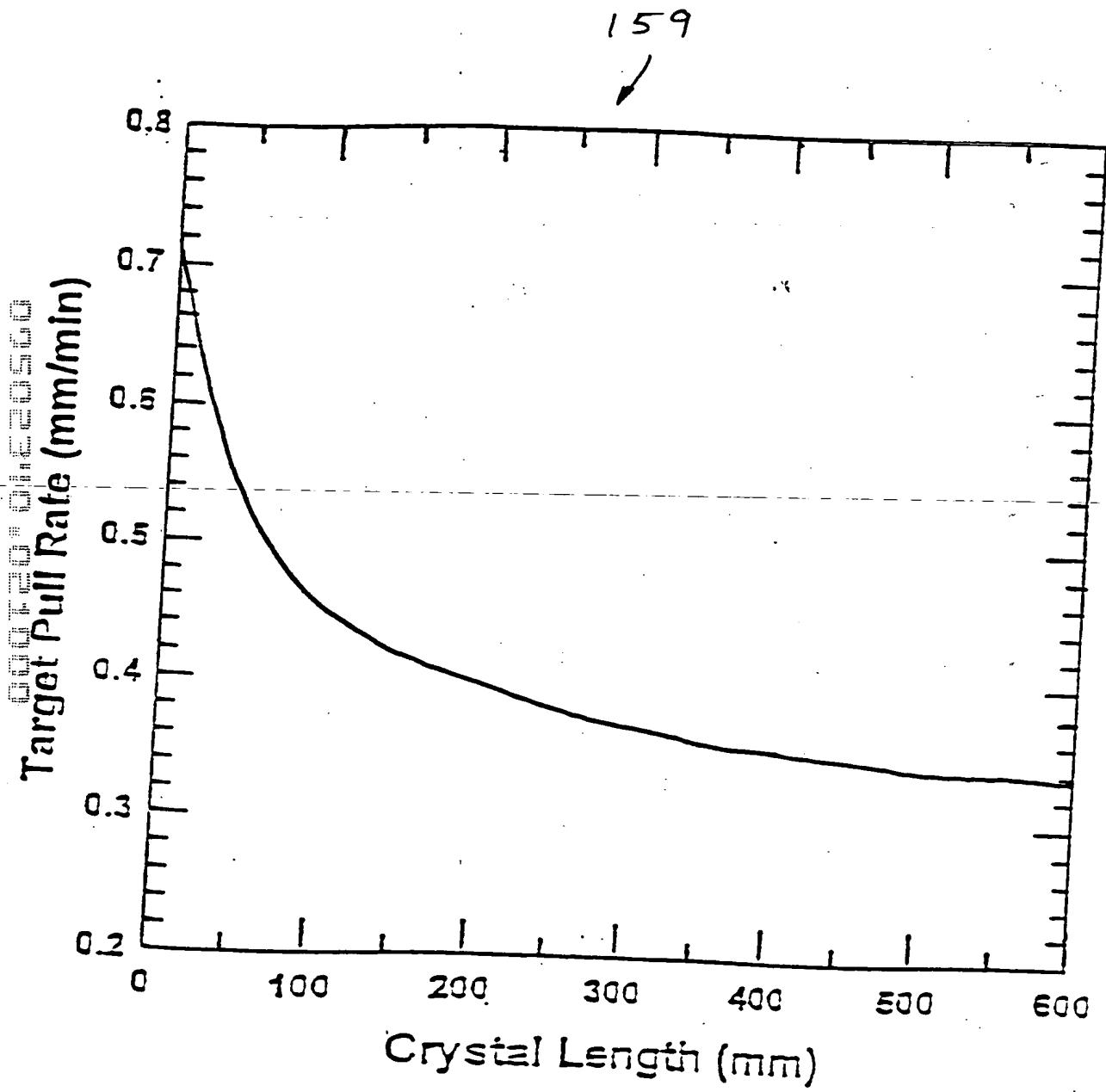


FIG. 4

FIG. 5

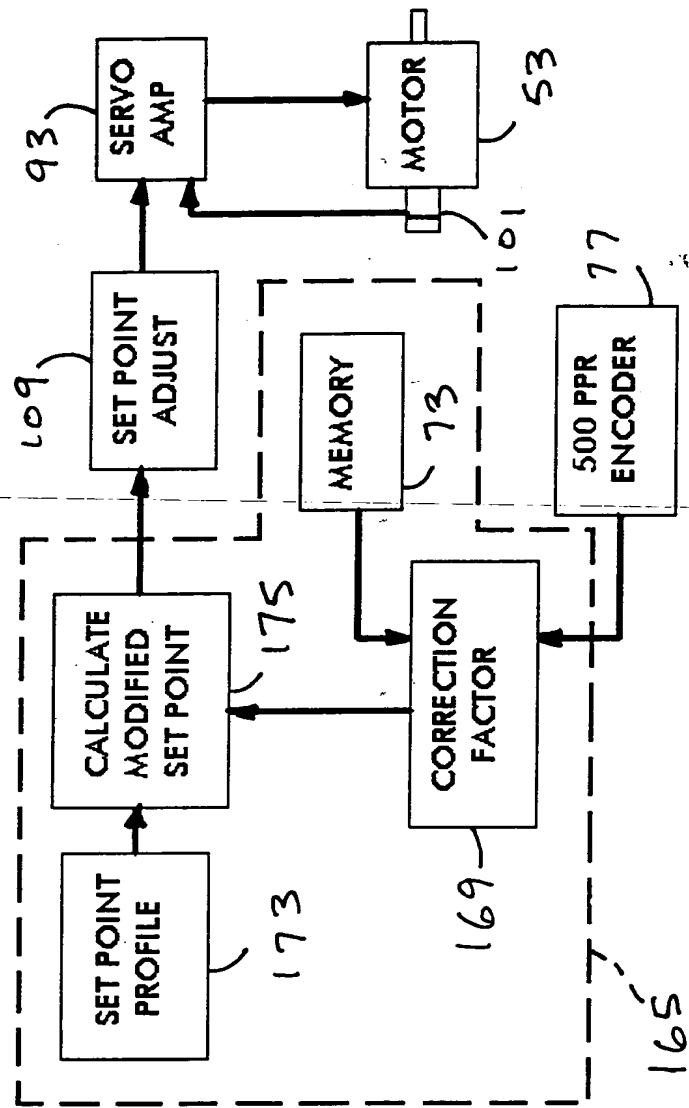


FIG. 6A

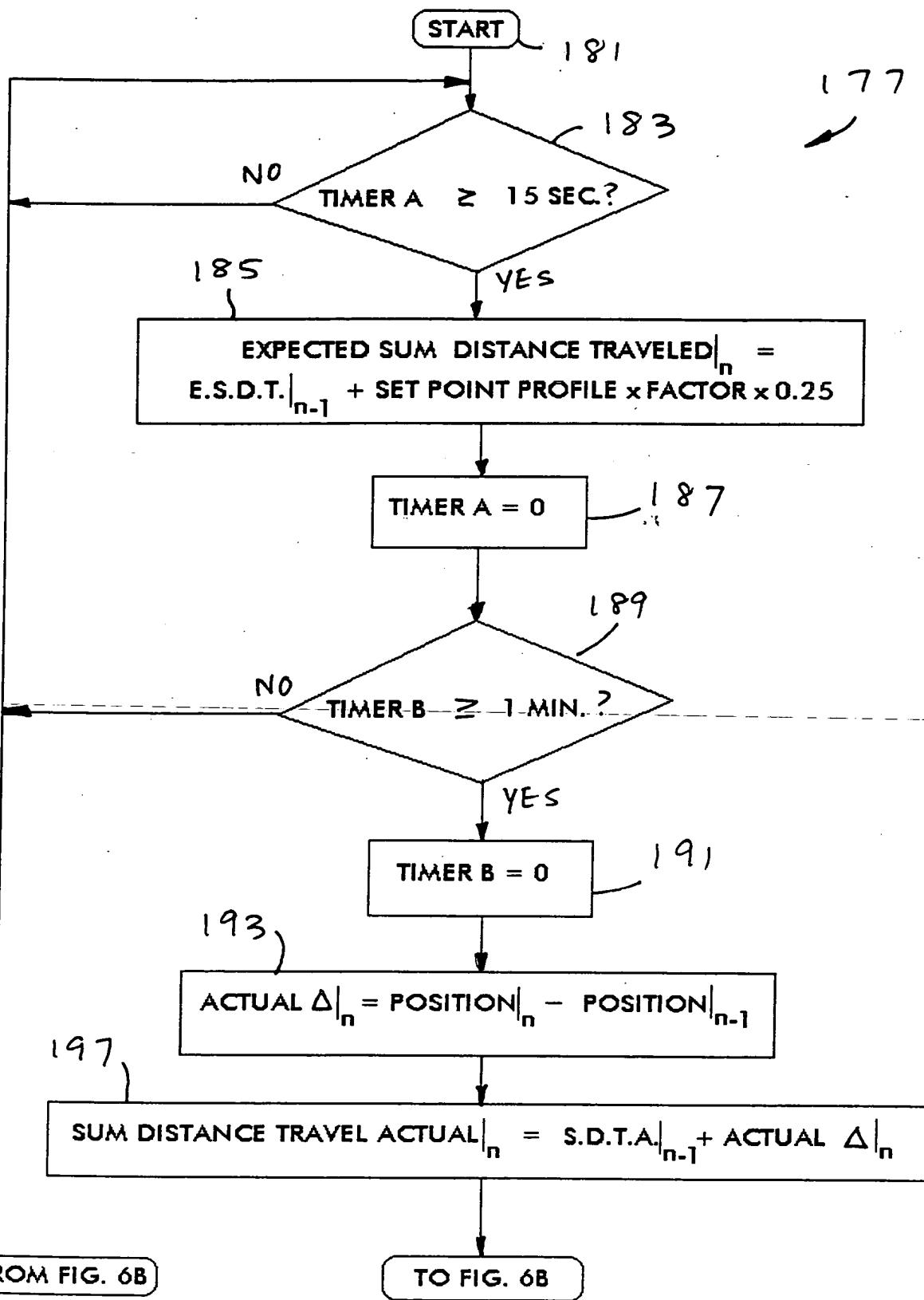
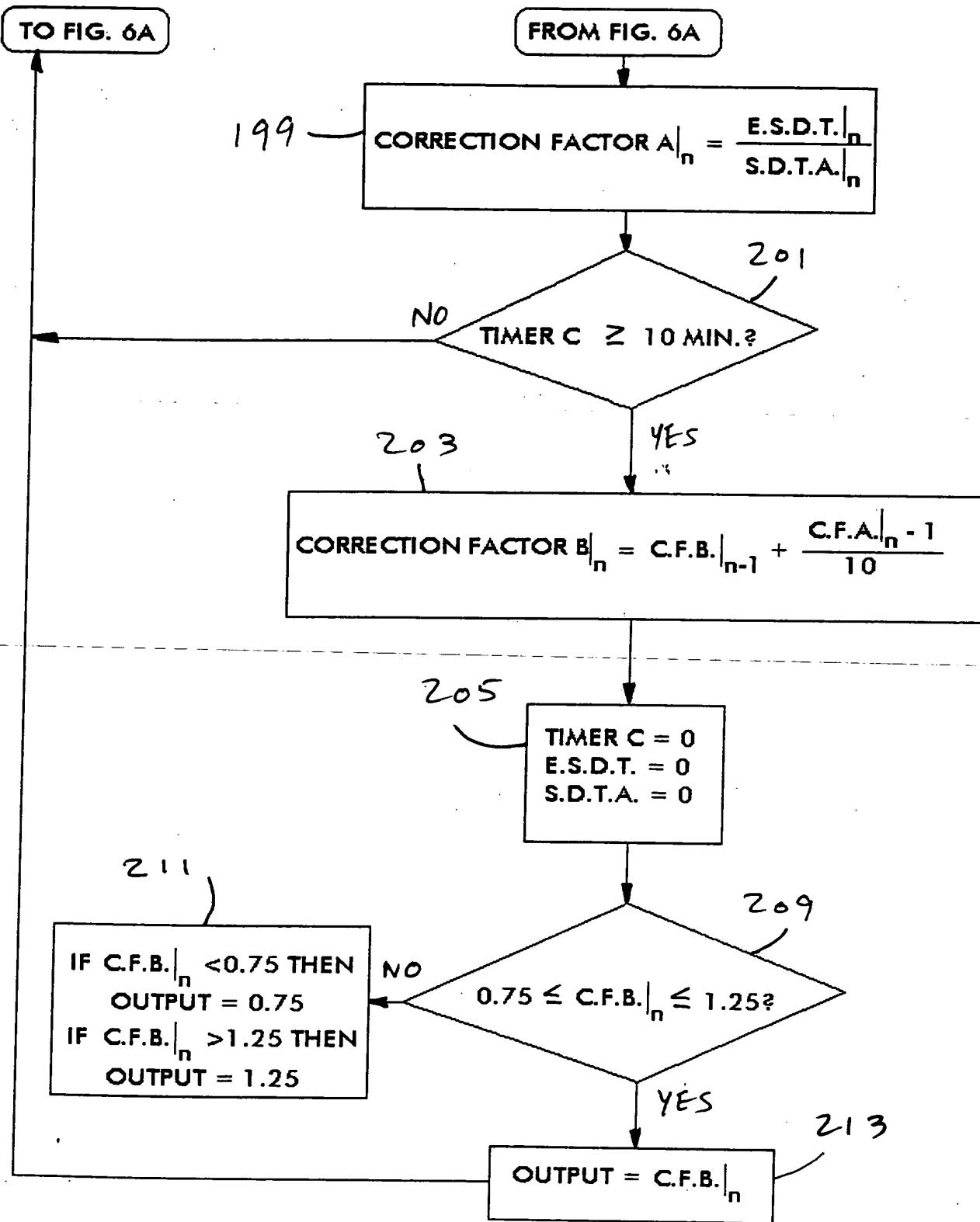


FIG. 6B



Diameter Control Loop -- Seed Lift

217

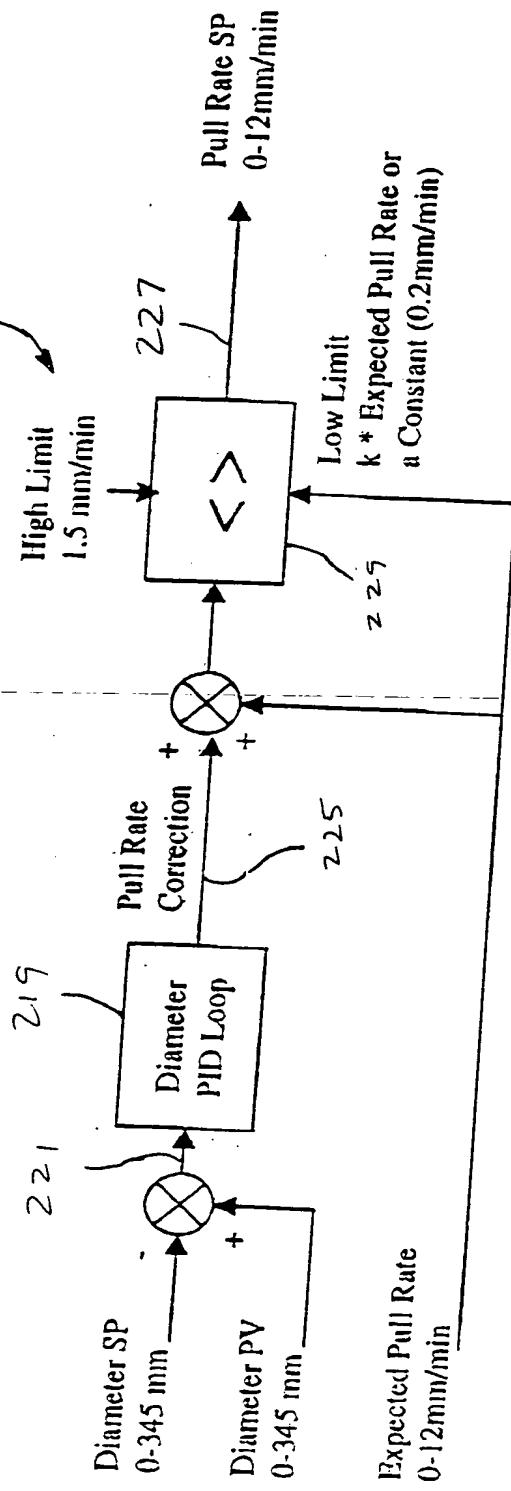
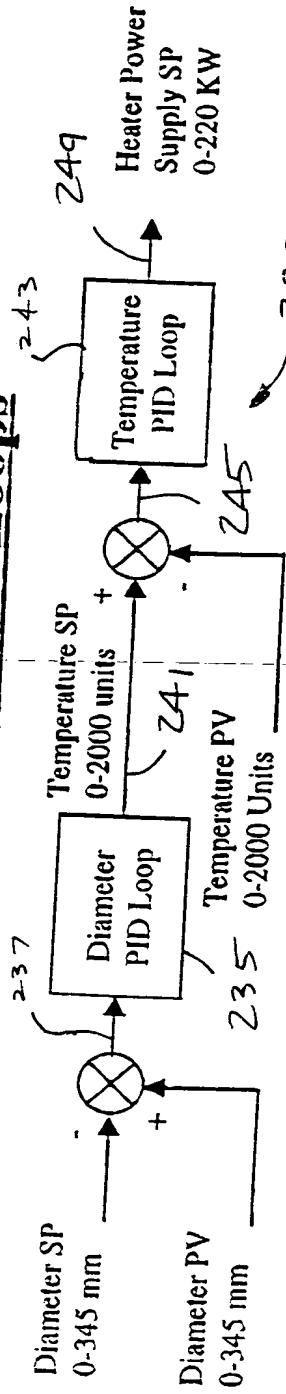


FIG. 7

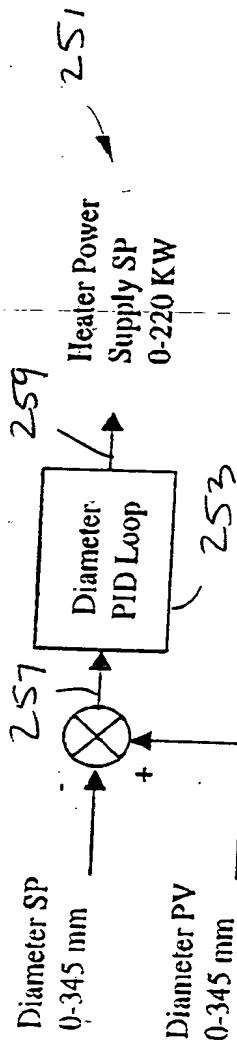
Prior Art

Fig. 8 PILOT M&T

Cascaded Temperature Control Loops



Power Control Loop



Power Control Loop With Process Model

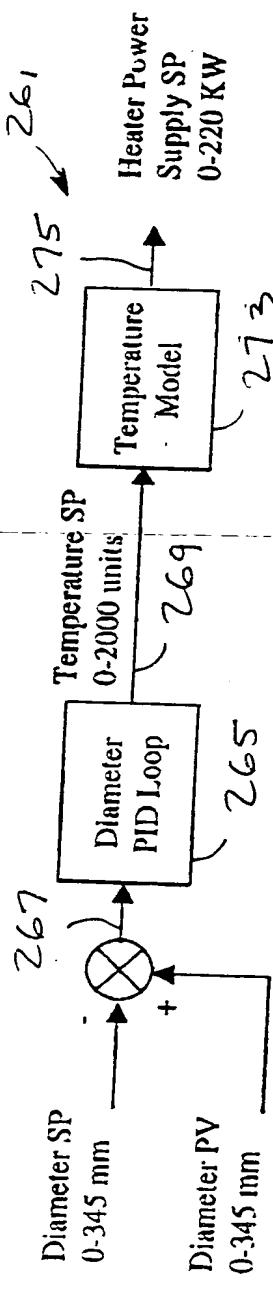
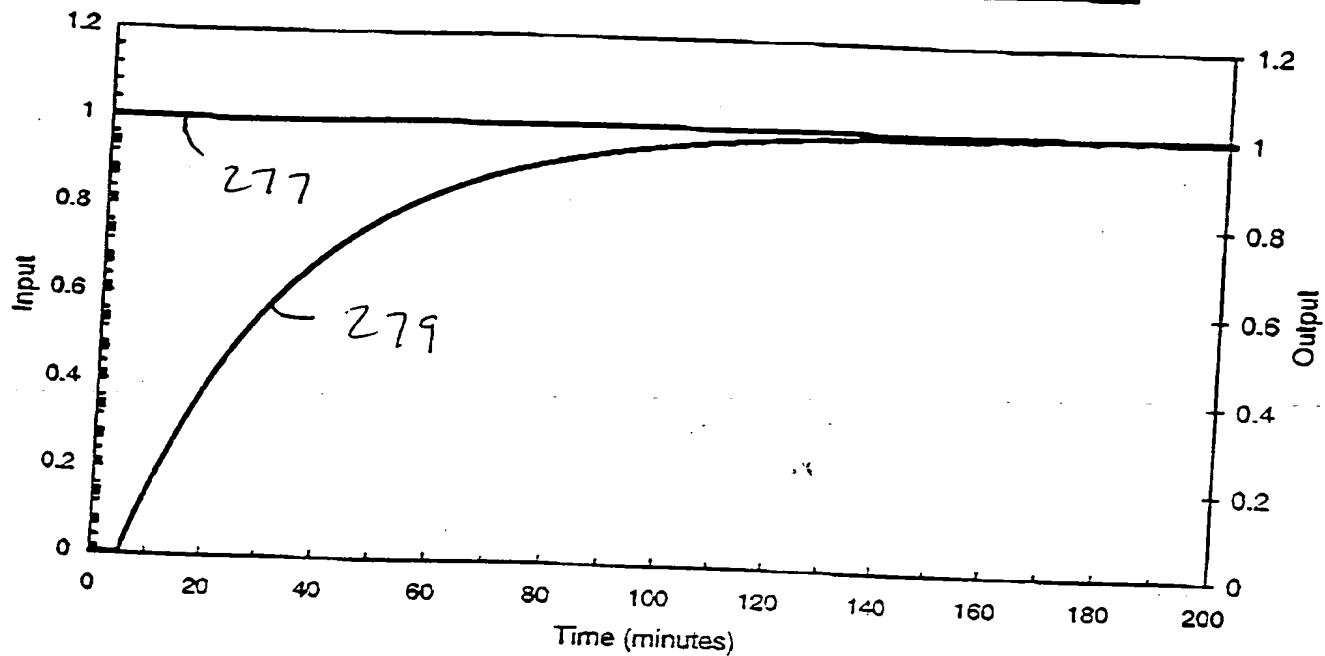


FIG. 11 PRIOR ART

First-Order Lag Function Response

(Unity Step Input at $t = 1$ Without Pulse, $\tau = 30$ minutes, $T_d = 5$ minutes)



First-Order Lag Function Response

(Unity Step Input at $t = 1$ With 3.16 Minute, 10x Pulse, $\tau = 30$ minutes, $T_d = 5$ minutes)

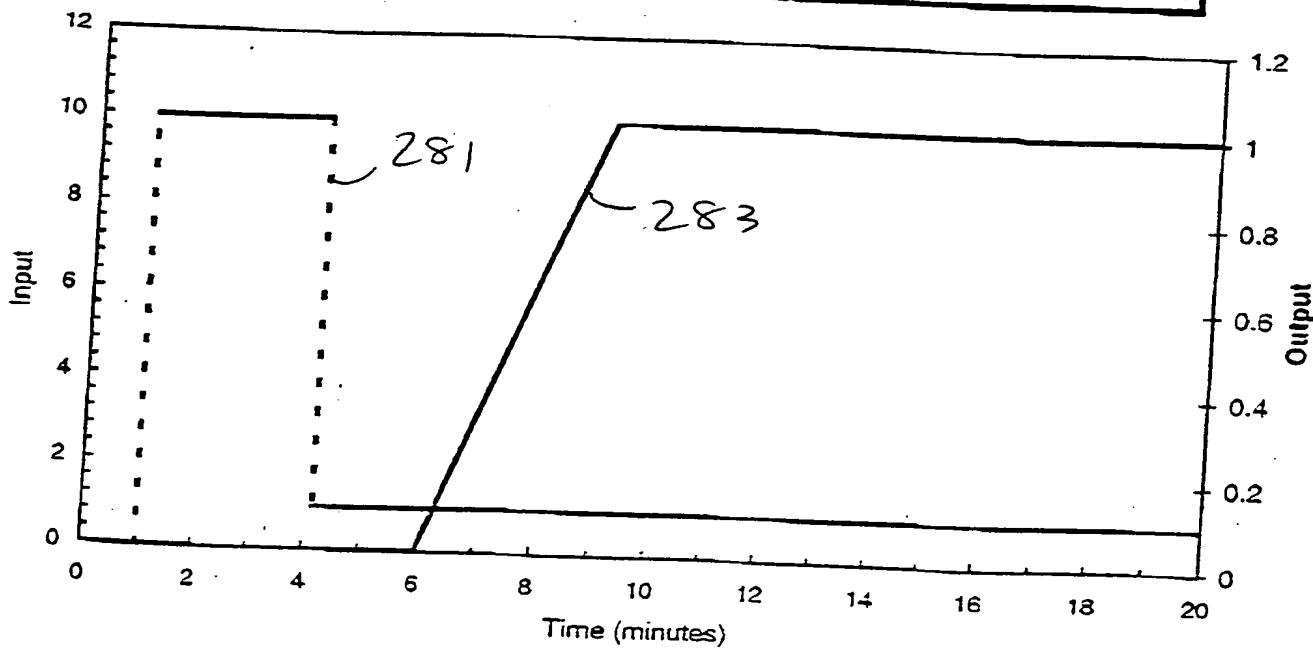


FIG. 12

FIG. 13

